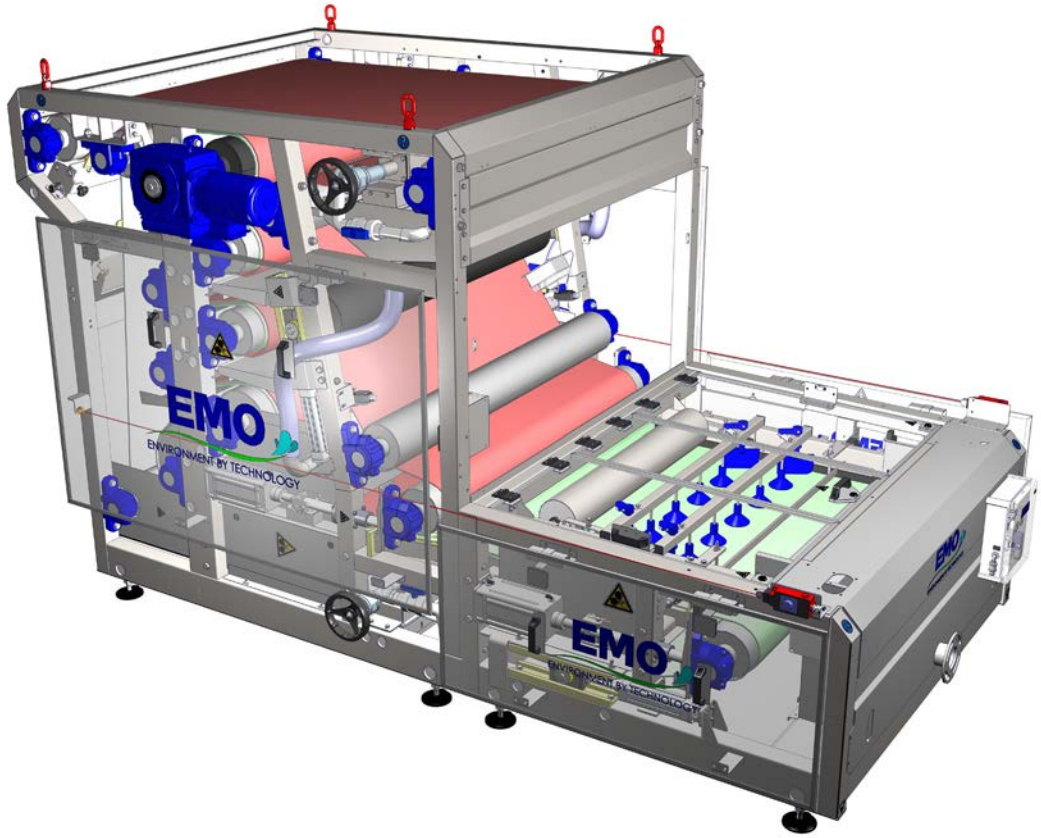
OMEGA NHP

Belt Filter Press

The Belt Filter Press OMEGA NHP is designed for the continuous mechanical dewatering of municipal and industrial sludge.



ADVANTAGES

- Long term reliability thanks to an increased frame structure made of galvanized and stainless steel profiles
- Optimum space requirement/efficiency ratio
- No civil works constraint (machine equipped with adjustable feet)
- New roller configuration for optimised sludge treatment
- Belt length specially designed for a greater progressive sludge pressing for maximum dryness
- Easy maintenance and supervision

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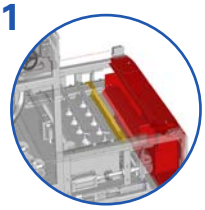
OPERATING PRINCIPLE

The flocculated sludge flows onto the filtering belt and forms grooves at the inersection of the drainage ploughs which increase the efficiency of the gravity filtration process.

The water contained in the sludge flows through the mesh of the filtering belt. At the end of the gravity thickening zone, a first pressing stage takes place using an adjustable pressing roller. At this stage, the thickening process of the sludge is completed.

At the convergence of the 2 filtering belts, the pressing and rolling process begins using several rollers of different diameters. This allows optimizing dewatering of the sludge while maintaining an optimal capture rate. The thickened sludge is scraped off the filtering belt and discharged to a sludge thickened pump or a screw conveyor.

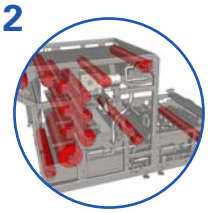
1



A sludge distribution pan

For a uniform distribution of the flocculated sludge on the filtering belt.

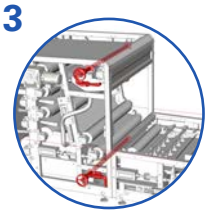
2



Pressing and rolling

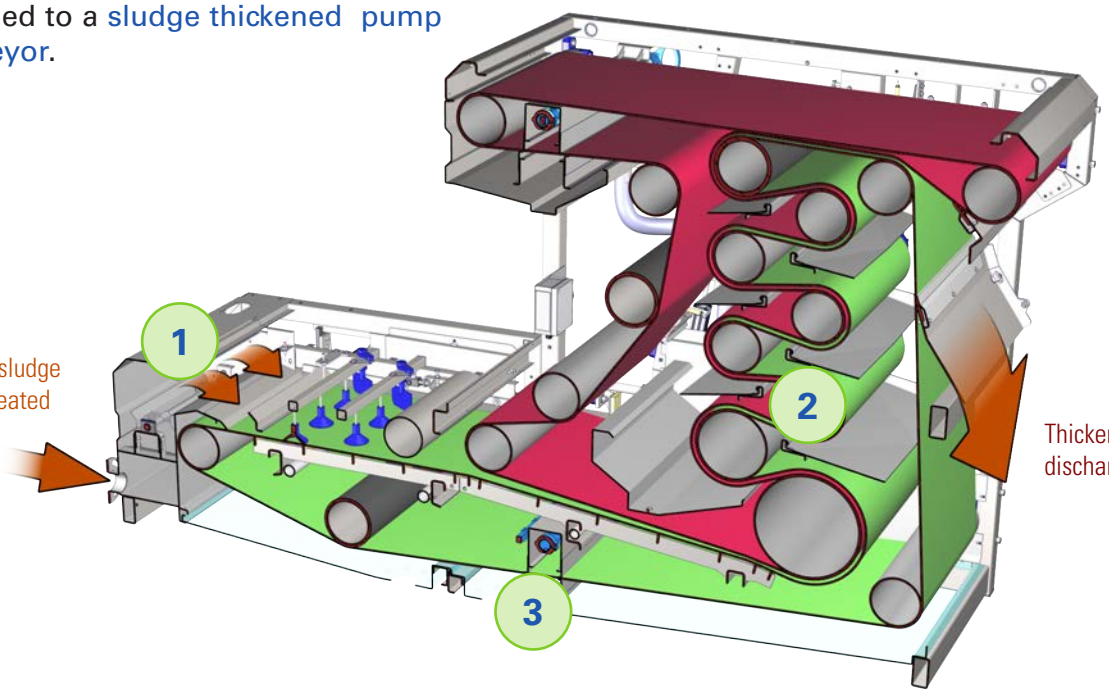
For a maximum sludge dewatering and optimized capture rate.

3



Two washing spraybars

For efficient cleaning of the filtering belts and permanent control of water consumption.



RANGE & SELECTION TABLE

Model	Maximum flow capacity (m³/h)	Belt width (mm)	Active drainage surface (m²)	Active pressing surface (m²)
OMEGA NHP 1000	8	1000	0,90	4,30
OMEGA NHP 1500	13	1500	1,50	6,80
OMEGA NHP 2000	18	2000	2,00	9,30
OMEGA NHP 2500	25	2500	2,60	11,80
OMEGA NHP 3000	30	3000	3,10	14,40

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Certification ISO9001 - ISO14001